

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P184366

Luminaire Tested: **ENW/ENC-12-4-LD1-43-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184366  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32844)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ENW/ENC-12-4-LD1-43-40-CP187-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS  
Light Source: 4000K LEDS  
Ballast/Driver: -

**Summary**

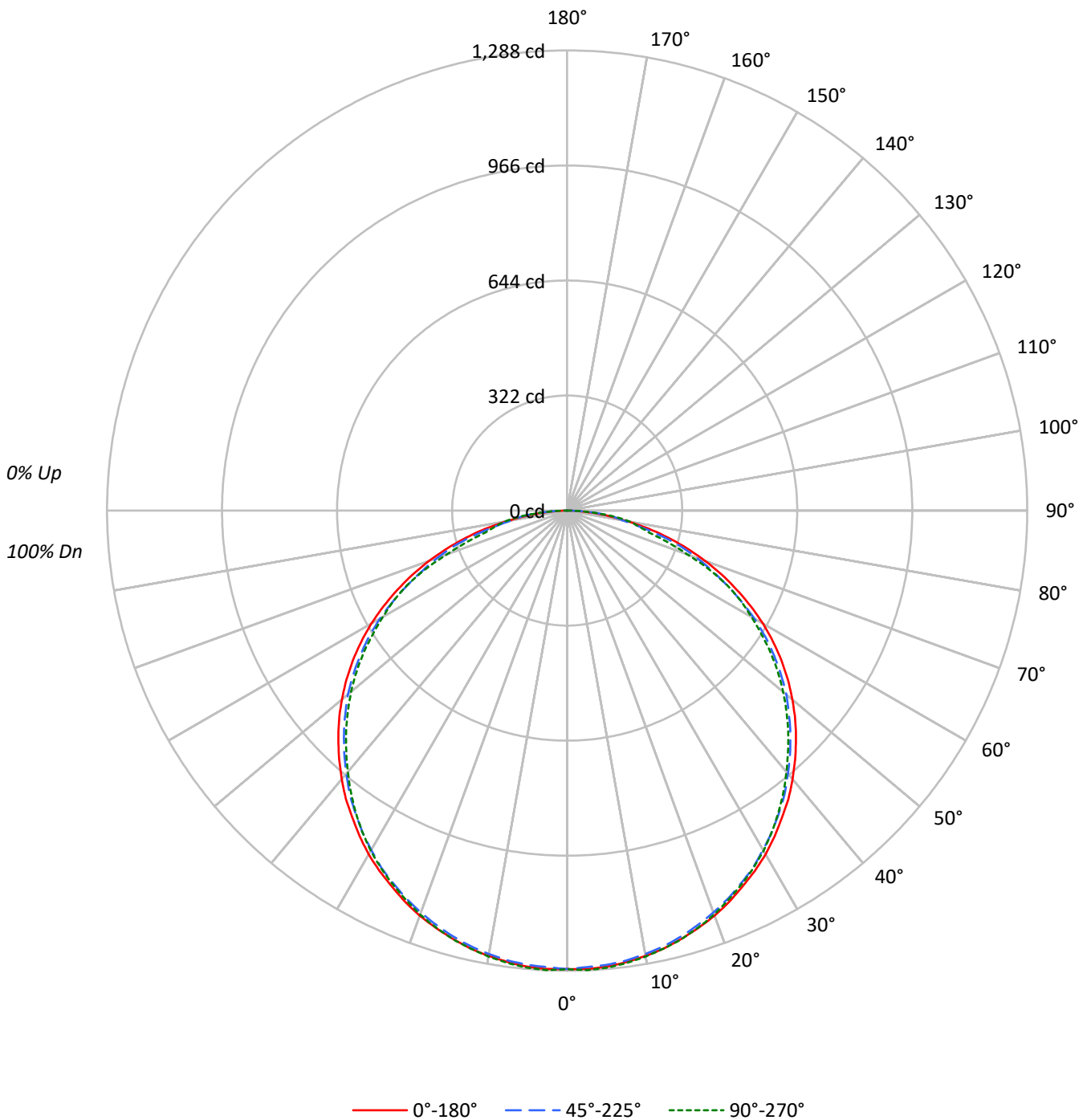
Lumens per Lamp: N/A  
Luminaire Lumens: 3841.3 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3453	3453	3453
5°	3454	3421	3439
10°	3443	3391	3403
15°	3432	3358	3367
20°	3424	3321	3325
25°	3407	3283	3276
30°	3402	3242	3230
35°	3385	3197	3167
40°	3376	3143	3095
45°	3363	3090	3027
50°	3345	3033	2953
55°	3317	2944	2858
60°	3264	2822	2733
65°	3165	2638	2588
70°	3020	2440	2206
75°	2780	2120	1792
80°	2305	1635	1767
85°	1650	1298	1204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	3.2
10°-20°	349.5	9.1
20°-30°	532.8	13.9
30°-40°	648.9	16.9
40°-50°	684.5	17.8
50°-60°	634.5	16.5
60°-70°	495.7	12.9
70°-80°	284.6	7.4
80°-90°	89.1	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1004.0	26.1
0°-40°	1652.9	43.0
0°-60°	2971.9	77.4
0°-90°	3841.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1282	1281	1276	1282	1284	122
15°	1240	1240	1234	1238	1241	350
25°	1161	1158	1151	1154	1155	536
35°	1048	1044	1033	1031	1032	657
45°	906	900	884	877	875	699
55°	732	723	707	698	696	654
65°	524	515	493	495	494	518
75°	292	280	271	242	237	308
85°	69	73	84	83	84	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1284.2	1283.3	1278.9	1285.0	1287.6
5°	1281.5	1280.7	1276.2	1281.5	1284.2
7.5°	1274.4	1275.3	1270.1	1274.4	1277.1
10°	1265.7	1264.8	1260.3	1265.7	1267.4
12.5°	1255.1	1253.4	1248.9	1252.5	1255.1
15°	1240.2	1240.2	1234.0	1237.5	1241.1
17.5°	1224.3	1222.5	1216.4	1221.7	1223.3
20°	1206.7	1204.1	1197.0	1200.5	1203.2
22.5°	1185.5	1182.1	1175.9	1178.5	1179.4
25°	1160.9	1158.2	1151.2	1153.9	1154.8
27.5°	1137.2	1132.7	1126.7	1126.7	1128.4
30°	1110.8	1104.6	1096.6	1096.6	1099.4
32.5°	1080.8	1074.7	1066.7	1065.0	1066.7
35°	1048.3	1043.8	1033.3	1030.7	1031.5
37.5°	1017.5	1010.5	999.8	993.7	994.5
40°	981.3	975.3	961.2	954.9	954.9
42.5°	944.4	938.3	923.3	916.2	915.3
45°	905.7	899.5	883.7	876.6	874.8
47.5°	866.1	858.1	842.3	834.4	832.6
50°	822.9	815.0	800.9	790.4	789.5
52.5°	779.0	771.0	754.4	744.6	743.7
55°	732.3	723.4	706.8	697.9	696.2
57.5°	683.8	675.1	657.5	648.7	645.2
60°	632.8	623.2	604.6	595.8	595.8
62.5°	579.1	569.4	549.2	544.8	549.2
65°	523.7	514.9	492.8	494.7	493.7
67.5°	468.2	458.6	437.4	440.0	430.4
70°	410.2	399.6	385.5	372.3	357.4
72.5°	352.0	339.7	332.7	301.9	294.9
75°	292.3	279.9	271.1	242.0	236.7
77.5°	233.2	226.2	206.8	198.0	205.1
80°	169.8	176.9	158.4	171.6	178.7
82.5°	118.8	118.8	128.5	136.5	136.5
85°	68.7	73.0	84.5	82.7	83.6
87.5°	29.9	37.0	35.2	37.0	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)